

**Abstract**

SAW component with improved temperature coefficient of frequency

- 5 To reduce losses in a SAW component assembled on a piezoelectric substrate (S), the mass load on the metallization (M) is increased until the propagation velocity of the surface wave comes to rest below the propagation velocity of the fast shear wave. To limit the increase in the temperature coefficient of frequency in this process, a metallization with a significantly higher specific density than [that of] Al is used. The
- 10 temperature coefficient of frequency of the component is simultaneously reduced by a compensation layer (K) applied to essentially the entire surface, said compensation layer being made of a material having a temperature dependency of the elastic coefficient that counteracts that of the substrate-metallization combination.

- 15 Figure 2